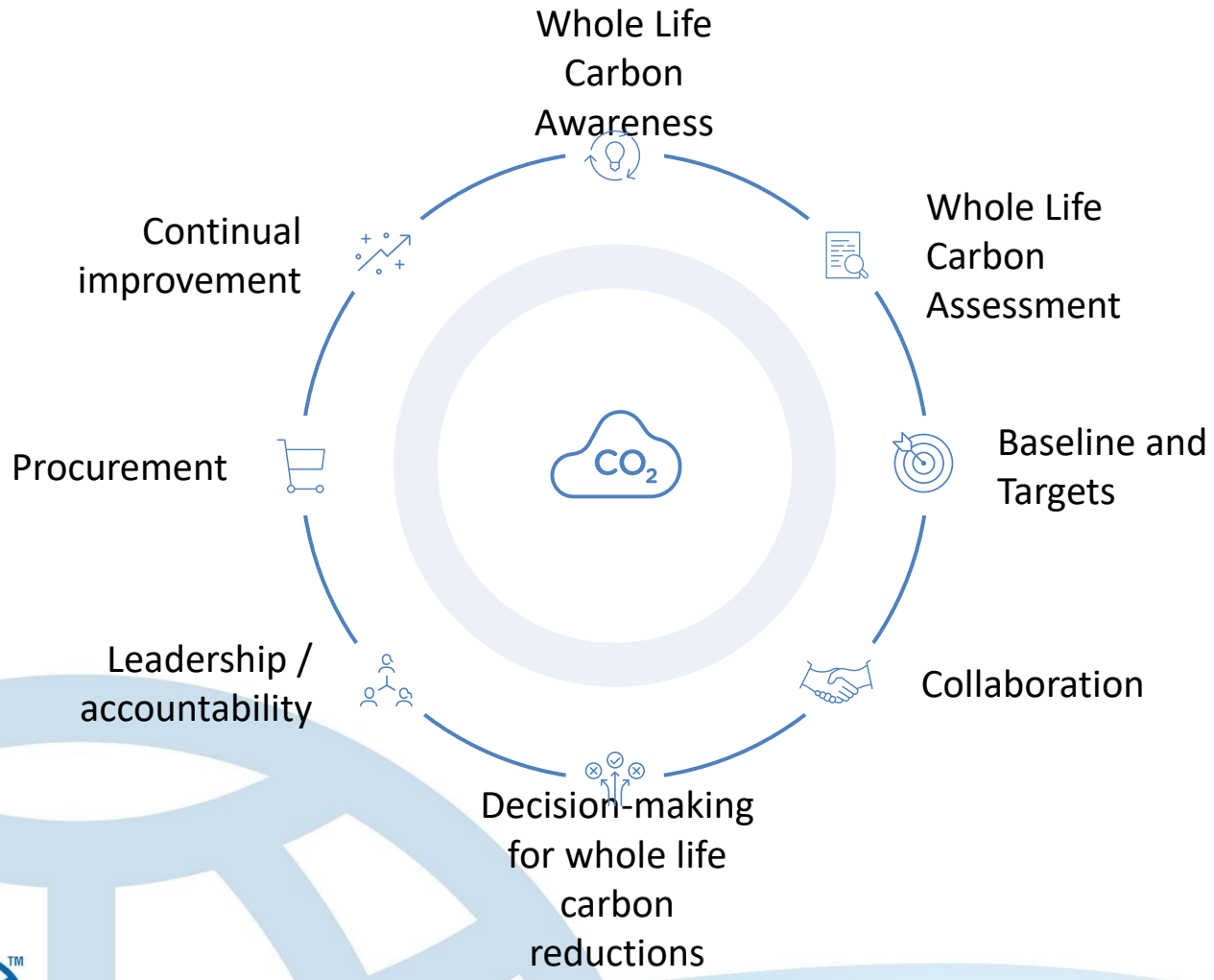
Carbon Collaboration Initiative

Our ambition is to support our members to increase their carbon management maturity through providing advice and building on existing guidance and tools.

This will enable them ultimately to consider and implement lower whole life carbon solutions in the infrastructure projects they are working on.

Without improving our carbon maturity, skills and collaboration we are not able to achieve our industry's carbon reduction goals. It is not enough to have a list of low carbon alternatives a design team can choose or have a detailed carbon assessment for the project we are delivering. A number of carbon management enablers need to be considered to create lower carbon projects

What is the CMF?



1. The Carbon Management Framework (CMF) is part of FIDIC's wider Carbon Collaboration Initiative (CCI). The overarching goal is to support project teams to deliver low-carbon infrastructure projects.

2. The CMF guidance document describes the seven components and details what it looks like to be at increasing levels of maturity in each of the components. These are aligned with the PAS2080 carbon management standard which is applicable for organisations to deliver projects in the built environment. A maturity assessment tool supports teams in evaluating their level of maturity in each component. This is helpful for project teams to understand which areas they will need to improve.

3. The CMF has a FAQs section that provides answers to key questions and signposts resources to support implementation. The CMF and the FAQs show how to reduce carbon emissions in a project

VISION: CMF can support clients/asset owners in ensuring that project teams aim for a specified level of carbon management maturity on projects.

What is required for pilot testing?

Goal is to test the application of the Carbon Management Framework on an existing infrastructure project (live or recently completed) to test the components and the definition of the levels of maturity in each component with a view for a project team to improve and ultimately implement low carbon solutions in their project.

CMF component	Level 1 – Acknowledging		Level 2 – Intervening		Level 3 – Achieving		Level 4 – Pioneering	
Leadership & Accountability	Project team has a basic understanding of carbon.	✓	Engineering teams understand carbon management and actively consider low carbon solutions.	✓	Project Exec in Asset Owner is accountable for implementing decarbonisation and meeting or exceeding the carbon targets.	x	Project Representative / Sponsor in Government has ownership of target setting and delivering it, with clear and significant penalties if the system target is missed. This person has to have appreciation of national/sectoral/regional carbon budgets and targets.	x
	Responsibility is with sustainability manager/team and not the engineering teams.	✓	Project Exec (can be asset owner delegating to design or contractor) is accountable for carbon impact of the project.	x	Each value chain member involved in the project proactively reduces whole life carbon in their control and influence, challenging the scope and intended outcomes for delivering whole life low carbon reduction.	x		x
	No clear accountability.	✓	Project Exec (can be asset owner delegating to design or contractor) prioritises the implementation of low carbon/low cost solutions, challenging the scope and intended outcomes of the project for greater carbon reduction.	x				
Carbon assessment	Basic carbon assessment done for capital and/or operational emissions. Assessment may not cover all project activities/assets and is limited to information that is available.	✓	Project teams (engineering teams and sustainability managers) have access to carbon data to be able to assess capital, and operational and/or whole life emissions and/or carbon removals.	x	Carbon assessment for whole life emissions and removals done in every stage early to inform reductions.	x	Granular carbon assessment using the most appropriate emissions factors is done for the emissions within the project boundary.	x
	Sustainability team helps designers understand the basic carbon hotspots of the project.	✓	Carbon assessment in this Level is typically done in one delivery stage only.	✓	Carbon assessment is dynamic and where appropriate more specific emissions factors (from supply chain, geography , etc) are used.	✓	Team makes effort to assess emissions beyond the project boundary as a result of a project (e.g. user emissions) affecting the wider system	x
			Carbon assessment done using generic industry data (emissions factors).	✓			Carbon assessment is dynamic and relevant to each delivery project stage	✓
			Carbon assessment data used to understand where carbon hotspots and reduction opportunities are.	✓				

How to do the pilot testing (1)

Step 1: The project team should start by familiarising themselves with the definition of the different carbon management components in the draft CMF document

Step 2: The project team should use the carbon maturity tool to score the project team in each of the carbon management components

Step 3: The project team should discuss the results with the project's senior leadership team and prioritise actions to take on specific components to move from a maturity level to the next one. The FAQs and answers should be used to see if they are helpful to get the teams to the next level of maturity. Moving from one level of maturity to the next one may not be easy! But as a minimum project teams will need to review the requirements of the next maturity level they would like to reach and make a plan on how to do that. For example, if a project doesn't currently assess carbon emissions (capital and operational), the next step will be to assess those with the help of the relevant FAQ and then understand where the carbon hotspots are to help reduce emissions. A carbon assessment is only required to inform efforts for reduction. As another example, if a project team assesses whole life emissions and has considered low carbon opportunities but the client hasn't shown an interest in carbon reductions, then the logical next steps will be for the project team to bring those examples of low carbon solutions to a relevant design meeting to start the conversation on how to start implementing those solutions

How to do the pilot testing (2)

Step 4: The project team should review the relevant FAQs and signposted guidance for relevant areas they wish to improve on and highlight to FIDIC any feedback on additional guidance they would like to see. Or propose other ways the framework should be improved.

Step 5: If an action has been taken within the pilot testing period, it would be good for the project team to record lessons learned and share those with FIDIC. Involving the client of the project in the project discussions and getting feedback on the application of the CMF, would also be of particular interest to FIDIC. So we encourage the project teams to reach out to their clients while testing the draft CMF

Note: the current draft version of the CMF doesn't include all guidance and resources in the FAQ answers. This is ongoing work. The current beta version for testing focuses on providing guidance and resources on quantification tools, low carbon solutions examples and some other areas. The final CMF guide is intended to include a more comprehensive list of resources.

Note: we appreciate that many infrastructure projects are in Level 1 or even less than Level 1. This is ok! What the CMF is trying to do, together with the maturity tool, is to help project teams understand in practical terms how to improve their carbon management maturity, engage the client and other value chain members in the project to improve they way they manage whole life carbon.

What is the pilot testing ask?

Minimum ask:

- Select an infrastructure project, in any sector and any project stage (preference would be for concept, design, or early delivery stage before all design;construction decisions have been taken).
- Commitment for core members of project team to go through CMF components in detail and review/evaluate how project aligns with each component
- Willingness to assess carbon emissions using the guidance (including capital carbon and operational carbon) as well as identify relevant low carbon solutions for the project
- Prepare short case study presenting the results
- Provide feedback on CMF and suggestions for improvement

What feedback we would like?

1. Comments on the CMF guidance document
   - General comments about the style, inclusivity, structure etc.
   - Cross-reference to local or national standards

2. Support with FAQ section
   - Recommendations for resources to signpost
   - Drafting of short questions and answers

3. Feedback on application of CMF on projects
   - Commentary on components
   - Commentary on level of detail and guidance provided for evaluating level of maturity
   - Suggestions for improvement

Carbon Collaboration Initiative

Thank you for your important support

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